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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711,193	08/31/2004	James A. Cooke	IP 116.1	5192	
· 23470 SRAM CORPO	7590 10/17/2007 ORATION	. •	EXAMINER		
1333 N. KING	SBURY, 4TH FLOOR		RASHID, MAHBUBUR		
CHICAGO, IL	. 60622		ART UNIT PAPER NUMBER		
			3683		
	•		MAIL DATE	DELIVERY MODE	
	•		10/17/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
-	10/711,193	COOKE, JAMES A.	
Office Action Summary	Examiner	Art Unit	
	Mahbubur Rashid	3683	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	n the correspondence addr	'ess
A SHORTENED STATUTORY PERIOD FOR RESULTANT STATES AS A SHORTENED STATUTORY PERIOD FOR RESULTANT STATES AND STATES AS AND STATES	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- tod will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this com ANDONED (35 U.S.C. § 133).	•
Status		•	
1) Responsive to communication(s) filed on 31 2a) This action is FINAL . 2b) ⊠ T 3) Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal matte		nerits is
Disposition of Claims			
4) Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application.	Irawn from consideration.	•	
Application Papers			
9) ☐ The specification is objected to by the Exam 10) ☐ The drawing(s) filed on 31 August 2004 is/ar Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) ☐ The oath or declaration is objected to by the	re: a) accepted or b) objection of the drawing (s) be held in abeyand rection is required if the drawing (s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a line	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	plication No eceived in this National S	tage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/06/2004 and 09/20/2007.	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application	

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statements (IDS) were submitted on 10/06/2004 and 09/20/2007. Accordingly, the examiner has considered the information disclosure statement, see attached 1449.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 8 recites the limitation "the output device" in line 1 of the claim. There is insufficient antecedent basis for this limitation in the claim.

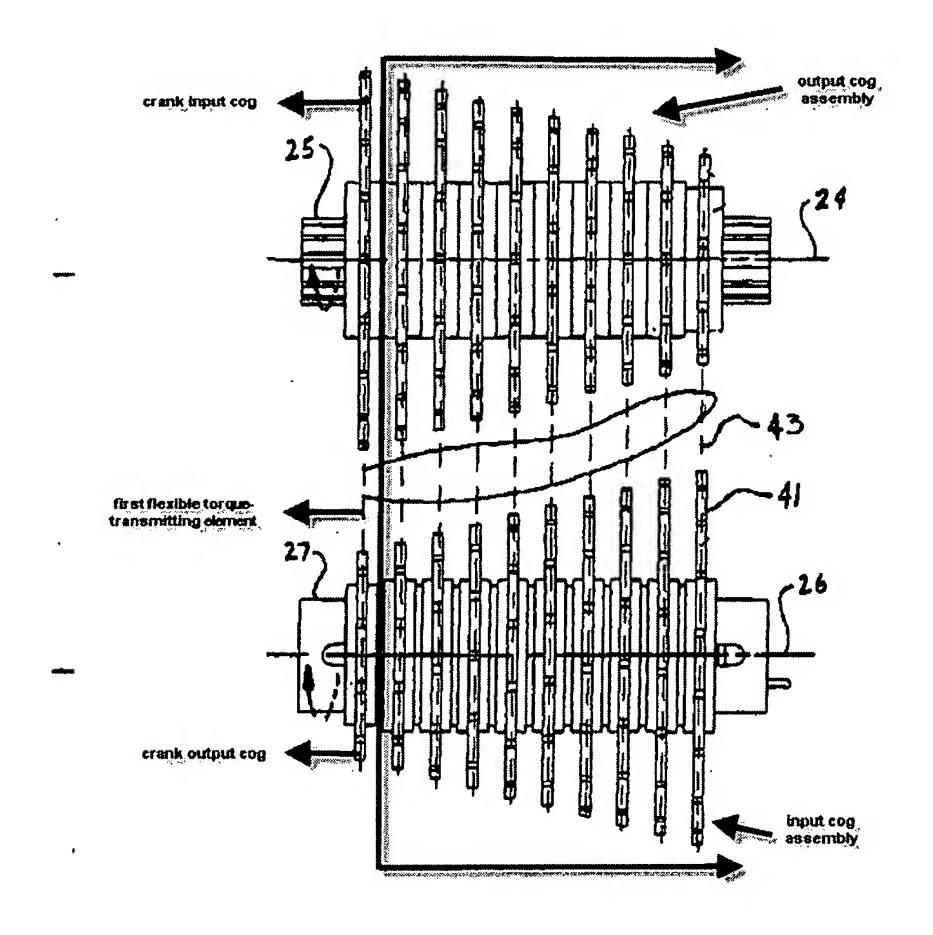
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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 5. Claim 1-18 are rejected under 35 U.S.C. 102(a) as being anticipated by Dratewski (US 2004/0067804 A1).



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Regarding **claim 1**, Dratewski discloses a transmission (figs. 1 and 2, (20)) comprising:

an input shaft (fig. 2, (27); see also [0085]);

an input cog assembly ((40); see also [0086]) mounted to the input shaft, the input cog assembly including a plurality of varying diameter input cogs arranged sequentially (see [0086]);

an output shaft (fig. 2, (25); see also [0085]) disposed substantially parallel to the input shaft;

an output cog assembly ((38); see also [0086]) mounted to the output shaft, the output cog assembly including a plurality of varying diameter output cogs arranged sequentially (see [0086]);

a chain (fig. 4, (42); see also [0088] and [0089]) linking one of the plurality of the input cogs (40) and one of the plurality of output cogs (38) disposed opposite the one of plurality of input cogs for transmitting power from the input cog assembly ((40); see also [0086], [0088] and [0089]) to the output cog assembly ((38); see also [0086], [0088] and [0089]),

the chain (fig. 4, (42); see also [0088] and [0089]), in operation, having a high-tension side (see (40); see also [0101]) and a low-tension side (see (38); see also [0101]); and

a derailleur (figs. 6-9, (50); see also [0101], [0107] and [0110]) engageable with the low-tension side (see (38); see also [0101]) of the chain to laterally urge the chain from a current output cog to a destination output cog,

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the input and output cog assemblies (figs. 2-4, (40) and (38); see also [0086]) disposed in close proximity to each other and in a complementary arrangement relative to each other with the plurality of input cogs substantially aligned with the plurality of output cogs in a paired arrangement such that in operation the high-tension side (see (40); see also [0101]) of the chain automatically shifts to the input cog directly opposite the destination output cog after the derailleur (figs. 6-9, (50); see also [0101], [0107] and [0110]) laterally displaces the chain from the current output cog to the destination output cog.

Re-claim 2, see an input device (fig. 13, (76)), the output shaft (fig. 2, (25); see also [0085]) is connected to the input shaft (fig. 2, (27); see also [0085]) by a first flexible torque-transmitting element (chain) (see fig. above) and a second flexible torque-transmitting element (drive chain) (fig. 13, (80)).

Re-claim 3, see a crank assembly (fig. 13, (76); see also [0116]).

Re-claim 4, see a crank input cog and a crank output cog (see fig. above).

Re-claim 5, see a crank assembly (fig. 13, (76); see also [0116]).

Re-claim 6, see gear ratio (see [0091]-[0100]).

Re-claim 7, see a housing (fig. 1, (22)).

Re-claim 8, see a bicycle wheel (fig. 13, (70), a wheel input cog (44), a wheel output cog (45) and the second flexible torque-transmitting element (80)(see also [0116]).

Re-claim 9, see the wheel input (44) and output (45) cogs.

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Regarding **claim 10**, Dratewski discloses a transmission (figs. 1 and 2, (20)) comprising:

an input shaft (fig. 2, (27); see also [0085]);

an input cog assembly ((40); see also [0086]) mounted to the input shaft, the input cog assembly including a plurality of input cogs;

an output shaft (fig. 2, (25); see also [0085]) disposed substantially parallel to the input shaft;

an output cog assembly ((38); see also [0086]) mounted to the output shaft, the output cog assembly including a plurality of output cogs;

one of said input and output cog assemblies comprising cogs of varying diameter arranged sequentially (fig. 2; see also [0085]);

a chain (fig. 4, (42); see also [0088] and [0089]) linking one of the plurality of the input cogs (40) and one of the plurality of output cogs (38) disposed opposite the one of plurality of input cogs for transmitting power from the input cog assembly ((40); see also [0086], [0088] and [0089]) to the output cog assembly ((38); see also [0086], [0088] and [0089]),

the chain (fig. 4, (42); see also [0088] and [0089]), in operation, having a high-tension side (see (40); see also [0101]) and a low-tension side (see (38); see also [0101]); and

a derailleur (figs. 6-9, (50); see also [0101], [0107] and [0110]) engageable with the low-tension side (see (38); see also [0101]) of the chain to laterally urge the chain from a current output cog to a destination output cog,

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the input and output cog assemblies (figs. 2-4, (40) and (38); see also [0086]) disposed in close proximity to each other and in a complementary arrangement relative to each other with the plurality of input cogs substantially aligned with the plurality of output cogs in a paired arrangement such that in operation the high-tension side (see (40); see also [0101]) of the chain automatically shifts to the input cog directly opposite the destination output cog after the derailleur (figs. 6-9, (50); see also [0101], [0107] and [0110]) laterally displaces the chain from the current output cog to the destination output cog.

Re-claim 11, see an input device (fig. 13, (76)), the output shaft (fig. 2, (25); see also [0085]) is connected to the input shaft (fig. 2, (27); see also [0085]) by a first flexible torque-transmitting element (chain) (see fig. above) and a second flexible torque-transmitting element (drive chain) (fig. 13, (80)).

Re-claim 12, see a crank assembly (fig. 13, (76); see also [0116]).

Re-claim 13, see a crank input cog and a crank output cog (see fig. above).

Re-claim 14, see a crank assembly (fig. 13, (76); see also [0116]).

Re-claim 15, see gear ratio (see [0091]-[0100]).

Re-claim 16, see a housing (fig. 1, (22)).

Re-claim 17, see a bicycle wheel (fig. 13, (70), a wheel input cog (44), a wheel output cog (45) and the second flexible torque-transmitting element (80)(see also [0116]).

Re-claim 18, see the wheel input (44) and output (45) cogs.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mahbubur Rashid whose telephone number is (571) 272-7218. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on (571) 272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mhr

SUPERVISORY PATENT EXAMINER